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the CHORUS

VOLUME 6—NUMBER 18

ROSE-HULMAN INSTITUTE OF TECHNOLOGY

TERRE HAUTE, INDIANA

FRIDAY, APRIL 2, 1971

PREDICT THE FUTURE?



Professor Duane Sorenson, of ISU's Economics Department, directs a CLUG session on Engineering Day for the Civil Engineering Department's CAI Program.

We all know of Jeanne Dixon and her powers of predicting the future, but is there some way that we as engineers and engineering students can predict the future based upon a somewhat scientific method? Independent studies at institutes of higher education throughout the United States and elsewhere have attacked this problem with a degree of success. The method that has been used has been scientific simulation of gaming. Most of the studies have been in the area of social and economic systems.

Social systems are well adapted to gaming techniques because it is impossible with present methods

to build an exact model or simulation of these systems. To build a mathematical model there are infinite variables concerning government policies and rules, public opinion, the concern of various interest groups, important issues, etc. These must be defined in math terms, the relationships among them determined, and then the whole works must be developed into a solvable equation. If this could be achieved, through variation of one variable or set of variables, the effect on the system or any one part of it could be studied. If any degree of accuracy could be achieved with such a relation it would have actual prediction capa-

bilities. Besides the complexities of variables, another element must be considered—the human element. Human behavior and emotion lies behind all decision making. What gaming does is to use all data and facts known about a given situation to set up rules and relationships and whenever a variable is missing or inadequate, a human player can be substituted. Also any decision making position will be taken by a "surrogate" human player. The resulting game can be played and used as a laboratory to study human behavior and also to predict the outcome of events.

The game cannot be a set or stagnant thing though. As situa-

tions or variables in the community or area studied change, the game must be changed also to be of any value. The game can serve as a framework itself. Operational gaming can also be an educational experience in that you learn by doing something in a simulated way rather than by conventional learning methods. It is possible that a game could not only predict the outcomes of events in the community, but also affect them. If representatives of various interest groups in a community could play the game and see the results of their role playing it might give them insight into hap-

(Continued on page Three)



Mrs. Margaret Monroe, of the Gaming and Simulation Center in St. Louis, explains the intricacies of the game.

Rose-Hulman Receives Grant

The Shell Companies Foundation, Inc., of New York has selected Rose-Hulman as the recipient of a \$1,500.00 grant. According to Dr. John A. Logan, the grant is divided into three \$500 grants. Grant I is for any institutional use the president decides is wise in recognizing the challenge to increase the general support of education.

The use of Grant II is determined by the academic dean and is aimed at encouraging additional professional development of individual members of the faculty. The third grant is to be used by the mechanical-aerospace department. Dr. James B. Matthews will be responsible for Grant II, while Dr.

(Continued on Page Two)

Collective Colloquy

FORMULA FOR FULFILLMENT

By Michael E. DeBakey, M.D.

(Dr. DeBakey is the President and Chief Executive Officer of the Baylor College of Medicine in Houston, Texas. A world famous pioneer of artificial heart surgery, he is the recipient of the Modern Medicine Award, the Distinguished Service Award of the American Medical Association, the Gold Scapel Award of the International Cardiology Foundation, and for two years the Medical World News salute as "Doctor of the Year.")

Think not that I am come to destroy the law, or the prophets; I am not come to destroy, but to fulfill.

—Matthew, 5:14-17

I am pleased to have the opportunity to offer a message to college

students through Constructive Colloquy, whose purpose exemplifies the goal of education—the free exchange of ideas and transfer of information. It is especially gratifying to see this forum for positive ideas on the college campus, in light of the undue and somewhat misleading emphasis in the news media on the dissident, militant element in colleges. The prevalence of such negativism has, I believe, been highly exaggerated, and is certainly at odds with my personal experience in visiting college campuses, conversing with young students throughout the country, and with my daily relationship with my own students. The habitual protesters, the agitators, the malcontents, the arsonists—these

(Continued on Page Two)

Rose-Hulman Heart Project

Did you know that Rose has a model heart operating right in the main building, in the Bio department? It's part of the Heart Project, originally sponsored by the Indiana Heart Association, and headed by Harold "Woody" Adamson, a senior Bio. The project members are: Seniors Woody and George Mells; Juniors Jim Burger, Sophomores Jim Morris and Mike Logan, and frosh Steve Smith and

(Continued on Page Three)

REMINDER

Quick reminder—Morganmason-downs will be returning for a concert on Sunday, April 4, at 9:00 p.m. in the Main Dining Room of the Hulman Union.

Entertainment

by Mike Lammey

ISU and St. Mary's both go on spring break this week so there isn't much activity on other campuses. If you want something listed in this column that presently isn't listed, drop a note in Box 414. *Sunday, April 4*

Morganmasondowns, 9:00 concert, Main Dining Room, \$1 admission.

April 1, 2, 6, 7

Amateur Photography Exhibition, Turman Gallery, Fine Arts Building, ISU.

SPORTS

Friday, April 2

ISU Baseball (2 games) against Taylor University, 1:00, Vaille Field (go north on 25th Street from Wabash to 8th Avenue and turn right—keep going).

Rose Track indoors against Earlham, 4:00.

Saturday, April 3

Rose Baseball (2) against Hanover, 1:00, Art Nehf Field.

Tuesday, April 6

Rose Baseball (1) against DePauw, 4:00, Art Nehf Field.

ISU Baseball (2) against Eastern Illinois, 1:00, Vaille Field.

Wednesday, April 7

Rose Track outdoors against Wabash, 4:00.

ISU Baseball (1) against St. Mary's College, 1:00, Vaille Field.

Thursday, April 8

Rose Golf against Wabash, 1:00, Rea Park.

Movie Information (for weekend—subject to change)

CINEMA I—232-3254 — Little Big Man (GP).

CINEMA II—232-3254 — A New Leaf (G).

GRAND—232-1260 — Barefoot Executive (G).

INDIANA — 232-8076 — Get Carter (R).

MEADOWS — 232-3909 — I Never Sang For My Father (GP).

PLAZA — 466-9710 — Love Story (GP).

Television Sports

Saturday, April 3

2:00, East-West All Star Game, (10).

3:30, Pro Bowling (2).

4:00, CBS Golf Classic (10).

5:00, Wide World of Sports (2).

Sunday, April 4

1:30, National Hockey League (10).

2:00, National Basketball Association (2).

4:15, Atlanta 500 (2).

5:45, American Sportsman (2).

Convocations

Tuesday, April 6

Experimental Films.

ROSE-HULMAN HEART PROJECT

(Continued from Page One)

John Hackleman.

The project got off the ground when the Indiana Heart Association contributed \$2,500 to start it. Then in the summer of 1970, the project was turned over to Bruce Johns, a graduate Bio, who built the model of the left side of the heart, on where the interest is concentrated. In September, 1970, Woody took over to provide instrumentation and calibration, and to take data. The data taken (for example, various pressures, flow rate, type and size of valve, etc.)

is then sent to Bruce Johns, who tries to find equations that will fit the data. The equations are then sent back to Rose for verification (by taking more data and plugging them into the equations). If everything fits, they then have a working model.

The purpose of the project is threefold. First, from data taken, they try to find equations describing how the left side of the heart works, particularly the conditions around the aortic valve. Secondly, once they have a working model, they test different manufacturer's heart valves, to find which ones work the best. Those valves which cause a great deal of turbulence in the flow are not good valves. Their requirements for a good valve are that the valve does not injure blood cells, deteriorate, or cause clotting, and that it is compatible to the human body. If the valve fails to meet all the requirements, it is not recommended for use. Finally, they try to design new valves, more efficient in use, and producing less turbulence in the flow.

The model itself is quite complex. There is a simulation left atrium and left ventricle, and tubing throughout the system. In the ventricular chamber, there is a piston pump which moves so the outflow is a half-rectified sine wave. When they have the valve in place, and everything working, they take data at various points, and then take photos of the area right around the valve itself. (Using slow motion and stop-action photos, they can determine how much turbulence is in the flow.) They insert essence of pearl in the flow, and with the aid of a tungsten light, the essence of pearl shows up quite clear in the photos. After testing valves, they try to relate them to human beings to find the proper valve shape and size for any particular patient.

From working on this project, in conjunction with the EE and Bio departments, particularly the Bio, Woody has got a summer job offer from Deaconess Hospital in Evansville, as their safety engineer for a new patient safety program. He also has a traineeship offer for a Health Care Technology program at Washington University, a combination Bio-EE program. This is a very worthwhile project, and if any students would like to work on it, or even have any suggestions, stop by and offer your help. It will be greatly appreciated.

—Kevin O'Sullivan

"What single girls are seeking is a husband with a fat wallet and a slim stomach."

PREDICT THE FUTURE?

(Continued from Page One)

penings and issues in the real community and affect the attitudes and stands they might take.

This concept has been explored by the Civil Engineering Department at Rose-Hulman. A program was set up this year known as the program for Community-Academic Interaction, (CIA). The goals of this program include a study of the social, economic, and civil systems of the Terre Haute-Vigo County area, and a promotion of the interaction between the people of the area and the academic community. It is thought that this

could be accomplished by the construction of a game or simulation of the community.

An investigation was made of the games that have already been developed in this area. Mrs. Margaret Monroe, a consultant for the Gaming and Simulation Center in St. Louis, was contacted. Mrs. Monroe made a visit to the Rose-Hulman campus on February 15th and 16th. During this visit she introduced us, the CAI members, to the Community Land Use Game (CLUG). Basically this game consists of building a city around a central point. CLUG is played by six or more players comprising three or more teams on a grid board representing fallow land open for development. The teams, acting under the influence of the game's resources and money, act as the community's citizens, government, planners, and developers. The game is actually an oversimplification of a regional economy's impact on land use. It developed much the same as a 19th century city would have.

Since Mrs. Monroe's first visit, CLUG has been made available to us by Professor Sorenson of ISU. He, along with the civil engineering students played the game on Engineering Day.

Mrs. Monroe made a second visit to our campus on March 22nd and 23rd. On the first day of her visit we were introduced to Policy Negotiations. In this game the players were divided into various interest groups such as businessmen, farmers, established residents, etc. They were confronted with various issues such as pollution control, zoning, and township planning which they voted on much as a state legislature would. These interest groups could also influence the vote through the news media and strong lobby groups such as the taxpayer's associations and the Sierra Club. Influence points could also be stored or used to change the agenda of voting. The passing or defeating of an issue could also change the amount of influence of a group or the probability that another issue would pass. Though this kind of game can be biased towards the

interest of whoever constructs the game, it can be valuable in the study of local government and issues. During the evening session a variation of the game was built around the Terre Haute situation and played.

On the second day of Mrs. Monroe's stay a 20th century version of CLUG called POLIS was played where the group started with the 19th century city developed by this previous CLUG game. The core became a slum area and the city developed further around it. The game encouraged group planning in city development and the building of industrial sites in areas other than the central city. Schools and parks were planned jointly by the different teams. Team members gained insight into planning before building and considering all possibilities and their ramifications.

Members of the community were invited to attend all of these sessions and some response was received. One of the short range goals of CAI now is to create a Policy Negotiations type game specifically for the Terre Haute area. It is hoped that through the construction and playing of this game we may reach a better understanding of the community in which we are living and will be able to interact with the members of this community.

—Chick Sweeney

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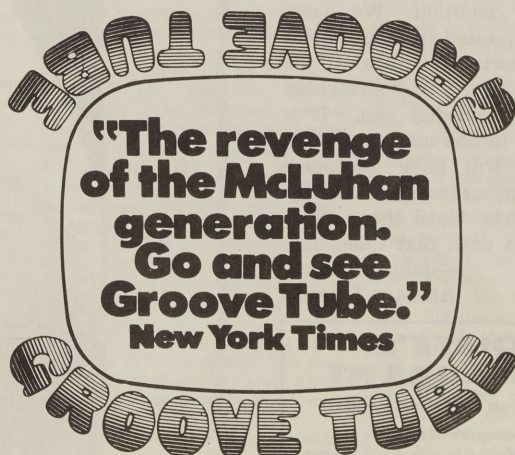
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WEDNESDAY, APRIL 14

MEANWHILE, COME IN FOR A

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WRESTLING IS HERE

Wrestling has finally made it to Rose-Hulman! As of April 1st, an intramural wrestling program will be held in the fieldhouse during the afternoon of each day. Mr. Dick Comer, assistant football coach during the fall, has been supervising and instructing all those who attended the session. The mats are open to anyone who is interested in wrestling. A tentative tournament is being planned for the last part of April. Therefore, if you do desire to enter the tournament, the mats are available to practice on from 4:00 to 5:00 p.m., Monday through Friday—all through April.

The type of wrestling mats that we do have are not the best that are available in our modern day. They are the old-type of wrestling mats made of canvas, not of the resolute material that most of the modern high schools and universities use. However, the mats that we do not have are a lot more than what we had a couple weeks ago ... which was nothing!

It is also very important that the students who are interested in the program, help to support it by showing ample attendance for the next month. If the program is not supported at this time, Rose-Hulman may never again entertain the idea of starting a wrestling team.

Remember, an intramural program of today could very easily lead to an intercollegiate wrestling team in the future.

REGULATIONS POSTED

In order to clear up any misunderstanding which might occur over the use of our limited tennis facilities, I am posting on the Athletic Bulletin Board in the hall of the main building and in the fieldhouse, the following regulations covering Varsity use of the courts:

1. The tennis courts are reserved for Varsity players between the hours of 3 p.m. and 6 p.m.—Monday through Friday and on days when Varsity matches are scheduled—1½ hour before match time.

2. The tennis courts are available on a "first-come-first-serve" basis for all members of the student body, including Varsity tennis players, during hours other than those mentioned above. In other words—Varsity players cannot receive the courts on demand—except for the hours posted.

We realize we do not have enough courts and also that they are in poor condition. We have, however, requested that our maintenance department re-paint the lines on the courts and straighten them up as best they can. It is hoped that, in the not too distant future, we will have additional courts and re-surfacing done to the existing courts. Until then, please bear with us until that time.

—John Mutchner
Athletic Director

SPRING INTRAMURALS

As intramurals roll into the spring season, we take a look backward at the winter IM season. Sigma Nu, winter sports being their strong point, dominated basketball and volleyball. The Snus major teams in basketball and volleyball completed undefeated seasons for the championships in those respective sports, while their Minor 1 team in basketball and their Minor 4 volleyball team dominated the minor league categories. Off Campus, however, made sure that the Snus didn't have a complete sweep as they won the major bowling championship, and Triangle's minor league team proved to be class of the minor league in bowling. In the post-season tournament, however, TX upset the favorites to take home the major trophy in a close win, while Triangle's minor team came through again with a win.

Meanwhile, the race for the all-sports trophy has taken a familiar turn. Sigma Nu has jumped into

the lead in overall points on the strength of their winter victories in major and minor basketball and volleyball, and will attempt to remain ahead through IM softball and track and successfully defend their overall victory of last year. However, Triangle, ATO and LXA will have a lot to say about the final result as they are all still very much in the running, and have proved strong in spring sports in the past.

In softball this spring, ATO will be out to defend their championship of last season, with strong competition again from LXA and Sigma Nu. Sigma Nu, champions of the track meet last spring, have been hard hit by the loss of Don Ings, who won three events last year, and the track meet looks to be a wide open contest this year.

There are very few things nicer than a wife who likes to cook—and can.

SGA Presents Films

On Tuesday, April 6, at 10:40 in the Auditorium, the Student Government Activities Board Convo Series will present a collection of short experimental films. The films deal humor humorously with such topics as pigs (the four-legged kind), homosexual transvestites, the soul of LBJ, and other timely subjects. One of the more interesting films is a slapstick take-off on Roadrunner cartoons using people instead of animated characters. I'm sure you will find this convo one of the more entertaining breaks in an otherwise boring 3rd quarter.

—Mark Murnan
Student Activities Board

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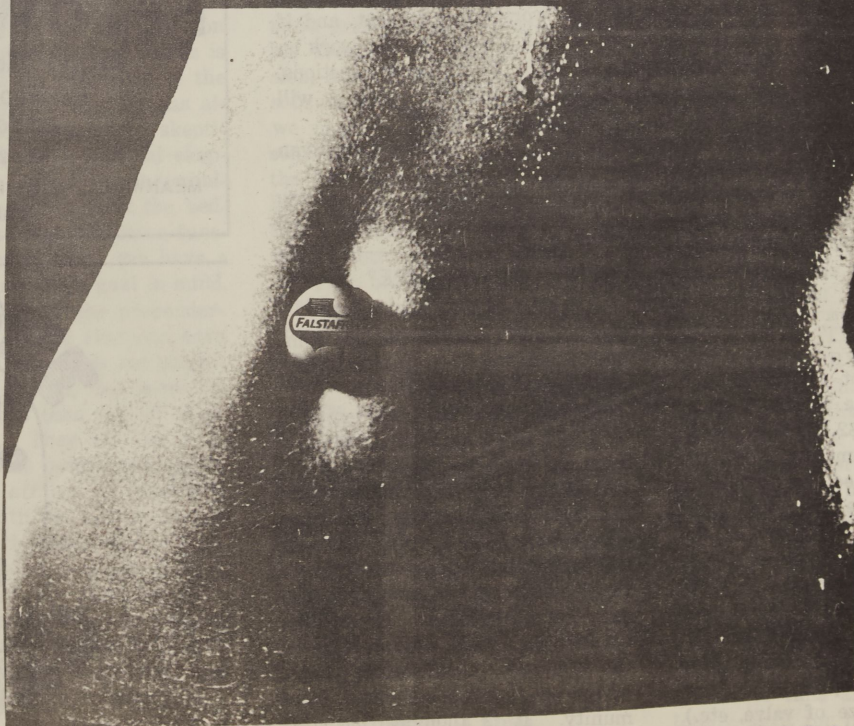
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